DCC 2018

Emergency Data Exchange Network

Dr. Brandon Wiley, KF5WVW President, Operator Foundation brandon@operatorfoundation.org

Emergency Data Exchange Network

- 1. Peer-to-peer text messaging
- 2. Digital voice (Codec2)
- 3. Repeater
- 4. Satellite
- 5. BBS
- 6. GPS tracker

EDEN - Peer-to-peer texting

- Arduino-compatible Cortex M0 processor
- LoRa packetized radio communication
 - o 900 MHz, 20 dBm, 2 km range
- Acts as WiFi access point
- Satellite bridge
- Simplex repeater

EDEN - Digital Voice

- Arduino-compatible Cortex M4F processor
- GFSK modulation for higher bandwidth
- Codec2 voice compression
 - We maintain a Codec2 Arduino package
- Simplex repeater